<u>WHAT IS CLAIMED IS</u>:

1.   An image generating system for generating an image, comprising:

a memory which stores a program and data for image generating; and

at least one processor which is coupled with the memory and performs processing for image generating,

the processor including:

a mapping section which maps a texture on an object by a texel interpolation method; and

a generating section which generates a defocused image for an original image by setting the original image as a texture and shifting a texture coordinate of the object when the texture is mapped on the object by the texel interpolation method.

2.   The image generating system according to claim 1,

wherein the defocused image of the original image is generated by shifting the texture coordinate by a value smaller than one texel.

3.   The image generating system according to claim 1,

wherein the texture coordinates are shifted to a first shift direction to perform the texture mapping by the texel interpolation method and the texture coordinates are then shifted to a second shift direction to perform the texture mapping by the texel interpolation method.

4.   The image generating system according to claim 1,

wherein the object is a virtual object having a shape substantially equal to a shape of a defocused area.

5.   A computer-usable program embodied on an information storage medium or in a carrier wave, the program comprising a processing routine to realize:

a mapping section which maps a texture on an object by a texel interpolation method; and

a generating section which draws a defocused image for an original image by setting the original image as a texture and shifting a texture coordinate of the object when the texture is mapped on the object by the texel interpolation method.

6.   The program according to claim 5,

wherein the defocused image of the original image is generated by shifting the texture coordinate by a value smaller than one texel.

7.   The program according to claim 5,

wherein the texture coordinates are shifted to a first shift direction to perform the texture mapping by the texel interpolation method and the texture coordinates are then shifted to a second shift direction to perform the texture mapping by the texel interpolation method.

8.   The program according to claim 5,
wherein the object is a virtual object having a shape substantially equal to a shape of a defocused area.

9.   An image generating method for generating an image, comprising:

mapping a texture on an object by a texel interpolation method; and

generating a defocused image for an original image by setting the original image as a texture and shifting a texture coordinate of the object when the texture is mapped on the object by the texel interpolation method.

10.   The image generating method according to claim 9, further comprising:

generating the defocused image of the original image by shifting the texture coordinate by a value smaller than one texel.

11.   The image generating method according to claim 9, further comprising:

shifting the texture coordinates to a first shift direction to perform the texture

mapping by the texel interpolation method; and

shifting the texture coordinates to a second shift direction to perform the

texture mapping by the texel interpolation method.